



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

008355



D4151-043
Job Sheet 188915

Part No: D4151-043

Job Qty: 4 pcs

Part Name: Basket Fwd Hardpoint Assembly, Upper



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 1/16/19

Job Tracking No:

Due Date: 2/12/19

Created By: Dara Macdonald

Type: SOLD

Description:

Note: DWG REV C SHEET 1 IPP Rev:A 10.06.24 new issue DD verf:EC IPP Rev:B 10.07.22 as per revB DD
verf:JLM IPP Rev:C 11.01.21 as per dwg revC DD verf:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		DAS Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Small Fab - 1	4 pcs	2/12/19		0.00	0.42	Small Fab - 1		58 FEB 27 2019 9-89
							Small Fab - 2		
							Small Fab - 3		
							Small Fab - 4		
							Small Fab - 5		
							Small Fab - 6		
							Small Fab - 7		
110	QC 5	4 pcs	2/12/19		0.00	0.00	QC 5 - 10		DAS 68 FEB 27 2019 9-89
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 38		
							QC 5 - 42		
							QC 5 - 43		
							QC 5 - 49		
							QC 5 - 51		
							QC 5 - 58		
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
							QC 5 - 30		
120	Packaging 3-1 - Stock - B4B	4 pcs	2/12/19		0.00	0.00	Packaging 3 - 1 - B4B		
							Packaging 3 - 2 - B4B		
							Packaging 3 - 3 - B4B		
							Packaging 3 - 4 - B4B		
							Packaging 3 - 5 - B4B		

				Packaging 3 - 6 - B4B	
				Packaging 3 - 7 - B4B	
				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
130 QC 21 - SA	4 pcs	2/12/19	0.00 0.00	QC 21 - SA - 21	DAG 21 FEB 28 2019
				QC 21 - SA - 70	DAG 21 FEB 28 2019
Part Op 100 - Small Fab Descriptions: 110 - QC5- Inspect part completeness to step on W/O 120 - Identify as per dwg & Stock Location: _____ 130 - QC21- Final Inspection - Work Order Release					
Job BOM					
Part / Item	Component Name	Quantity	Operation	Container	
AN4C13A	Bolt	8 Ea (2 ea)	100-Small Fab - 1	314375	213239
D4151-3	Upper Hardpoint Plate	8 pcs (2 ea)	100-Small Fab - 1	5155201	
D4151-7	Fwd Eyebolt Receiver (Upper)	4 pcs (1 ea)	100-Small Fab - 1	5149926	
MS21043-4	Nut	8 Ea (2 ea)	100-Small Fab - 1	5132395	
NAS1149C0432R	Washer	16 Ea (4 ea)	100-Small Fab - 1	5103990	
Job Allocations					
Operation	Component Part	Required	Inventory	Allocated	
100-Small Fab - 1	AN4C13A	8	145	0	
	D4151-3	8	13	0	
	D4151-7	4	0	0	
	MS21043-4	8	1,126	0	
	NAS1149C0432R	16	1,532	0	
Part Specifications					
Specifications could not be found.					

Order 11943



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D4151-043

Job Sheet 188915



Part No: D4151-043

Job Qty: 4 ea

Part Name: Basket Fwd Hardpoint Assembly, Upper



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 1/16/19

Job Tracking No:

Due Date: 2/12/19

Created By: Dara Macdonald

Type: SOLD

Description:

Note: DWG REV C SHEET 1 IPP Rev:A 10.06.24 new issue DD verf:EC IPP Rev:B 10.07.22 as per revB DD
verf:JLM IPP Rev:C 11.01.21 as per dwg revC DD verf:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	4 Ea		2/12/19	0.00	0.00	Start Up Small Fab-3		
100	Small Fab	4 pcs		2/12/19	0.00	0.42	Small Fab-6		
110	QC	4 pcs		2/12/19	0.00	0.00	QC5		
120	Packaging	4 pcs		2/12/19	0.00	0.00	Packaging3-2		
130	QC21-SA	4 Ea		2/12/19	0.00	0.00	QC21		

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
AN4C13A	Bolt	8 Ea (2 ea)	90-Start up Operation	
D4151-3	Upper Hardpoint Plate	8 pcs (2 ea)	90-Start up Operation	
D4151-7	Fwd Eyebolt Receiver (Upper)	4 pcs (1 ea)	90-Start up Operation	
MS21043-4	Nut	8 Ea (2 ea)	90-Start up Operation	
NAS1149C0432R	Washer	16 Ea (4 ea)	90-Start up Operation	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	AN4C13A	8	191	0
	D4151-3	8	13	0
	D4151-7	4	0	0
	MS21043-4	8	1,279	0
	NAS1149C0432R	16	1,768	0

Part Specifications

Specifications could not be found.

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D4151-043

Job Sheet 188916



Part No: D4151-043

Job Qty: 4 ea

Part Name: Basket Fwd Hardpoint Assembly, Upper



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 1/16/19

Job Tracking No:

Due Date: 2/12/19

Created By: Dara Macdonald

Type: SOLD

Description:

Note: DWG REV C SHEET 1 IPP Rev:A 10.06.24 new issue DD verf:EC IPP Rev:B 10.07.22 as per revB DD
verf:JLM IPP Rev:C 11.01.21 as per dwg revC DD verf:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	4 Ea		2/12/19	0.00	0.00	Start Up Small Fab-3		
100	Small Fab	4 pcs		2/12/19	0.00	0.42	Small Fab-6		
110	QC	4 pcs		2/12/19	0.00	0.00	QC5		
120	Packaging	4 pcs		2/12/19	0.00	0.00	Packaging3-2		
130	QC21-SA	4 Ea		2/12/19	0.00	0.00	QC21		

Job BOM

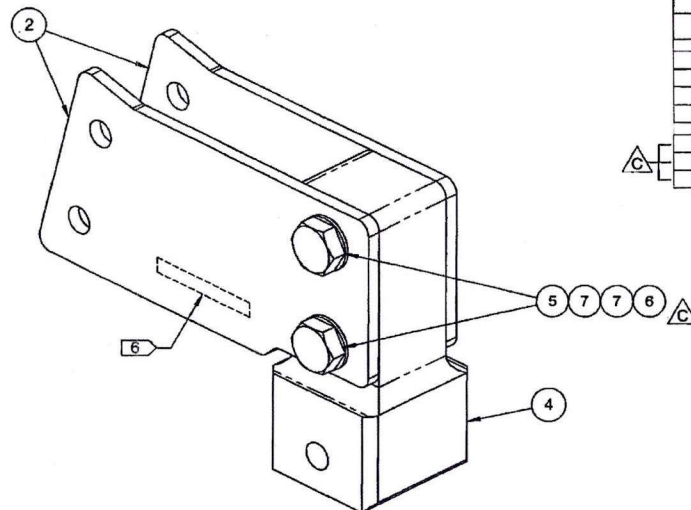
Part / Item	Component Name	Quantity	Operation	Container
AN4C13A	Bolt	8 Ea (2 ea)	90-Start up Operation	
D4151-3	Upper Hardpoint Plate	8 pcs (2 ea)	90-Start up Operation	
D4151-7	Fwd Eyebolt Receiver (Upper)	4 pcs (1 ea)	90-Start up Operation	
MS21043-4	Nut	8 Ea (2 ea)	90-Start up Operation	
NAS1149C0432R	Washer	16 Ea (4 ea)	90-Start up Operation	

Job Allocations

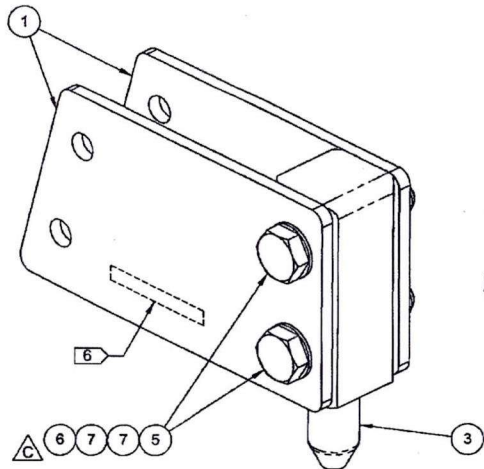
Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	AN4C13A	8	191	0
	D4151-3	8	13	0
	D4151-7	4	0	0
	MS21043-4	8	1,279	0
	NAS1149C0432R	16	1,768	0

Part Specifications

Specifications could not be found.



D4151-043 BASKET FWD HARDPOINT ASSY (UPPER)



D4151-041 BASKET FWD HARDPOINT ASSY (LOWER)

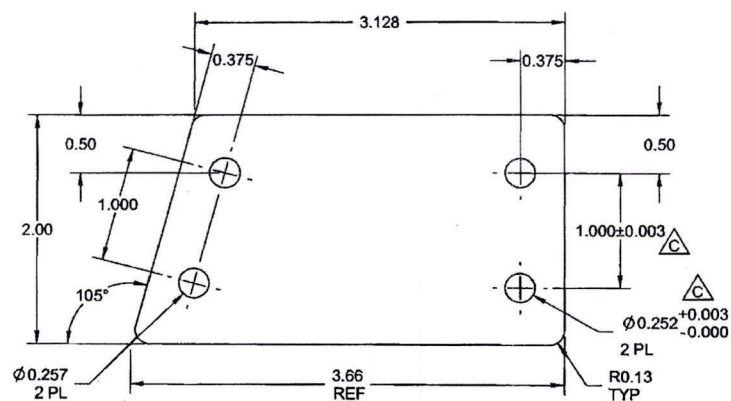
NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4151-04X" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT:
 - D4151-041 = 0.88 lbs
 - D4151-043 = 1.17 lbs

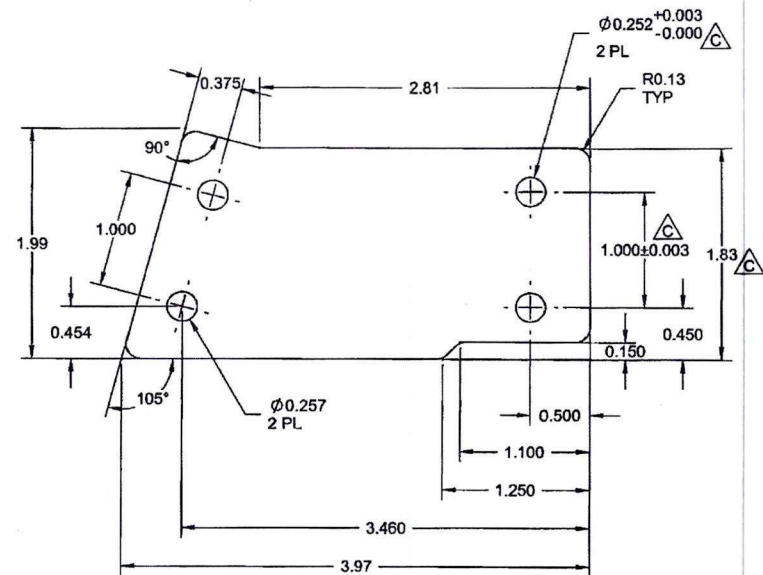
ITEM	QTY -041	QTY -043	P/N	DESCRIPTION
	X		D4151-041	BASKET FWD HARDPOINT ASSY (LOWER)
		X	D4151-043	BASKET FWD HARDPOINT ASSY (UPPER)
1	2		D4151-1	LOWER HARDPOINT PLATE
2		2	D4151-3	UPPER HARDPOINT PLATE
3	1		D4151-5	FWD BASKET INSTL STUD (LOWER)
4		1	D4151-7	FWD EYEBOLT RECEIVER (UPPER)
5	2	2	AN4C13A	BOLT
6	2	2	MS21043-4	NUT
7	4	4	NAS1149C0432R	WASHER

RELEASED
2011-01-18

C	AM HARDWARE WAS AN3 (B2-1, C3-1 & D3-1); Ø0.252 WAS Ø0.191 (C5-2, D1-2); TIGHTENED TOL ON 1.000 DIM (C5-2, D1-2, C7-3, C3-3); Ø0.250 WAS Ø0.191 (C6-3, B4-3); 1.83 WAS 1.75 (C1-2), 2.84 WAS 2.78 (B3-3) AND 1.88 WAS 1.80 (C1-3) TO PRESERVE 1.5ED. REASON: SEE D407-797 DESIGN JOURNAL.	MB	10.12.14
B	ADDED D4151-5-7 (SHT 3); D4151-5 WAS D3911-1 (ZN B6-1 & D3-1); D4151-7 WAS D3911-3 (ZN C4-1 & D3-1) ITEMS #5, 6 & 7 REPLACE MS20815-4M20 (ZN C3-1, D3-1 & B8-1); Ø0.191 2 PL REPLACES Ø0.129 3 PL (ZN C5-2); Ø0.191 2 PL REPLACES Ø0.129 4 PL (ZN D1-2). REASON: SEE TR-D350-807-2 REV. B.	MB	10.07.05
A	NEW ISSUE	MB	10.06.22
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.12.14		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D4151 TITLE BASKET FWD HARDPOINT SCALE NTS SHEET 1 OF 3 COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			



0.125
REF
D4151-1 LOWER HARDPOINT PLATE



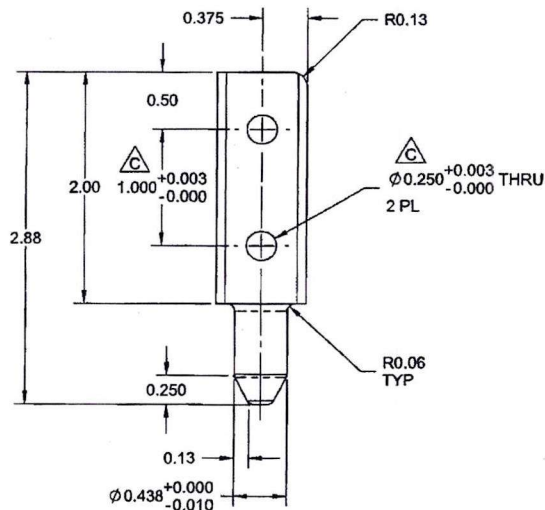
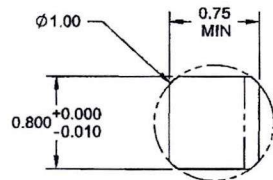
0.125
REF
D4151-3 UPPER HARDPOINT PLATE

NOTES:

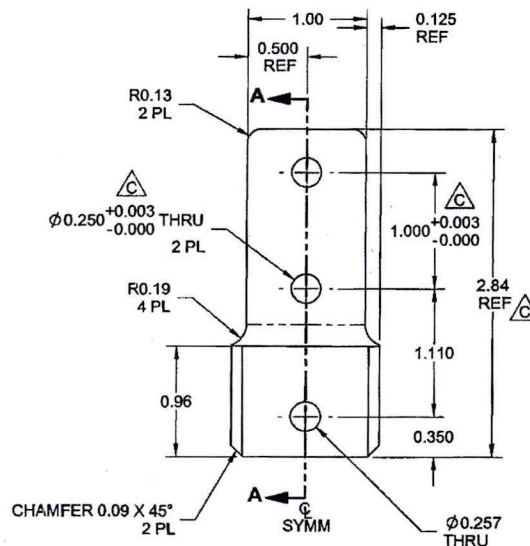
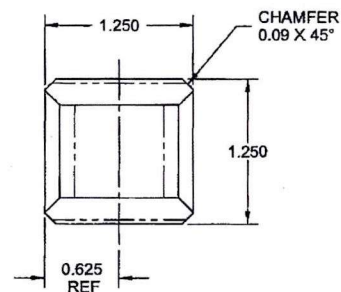
- 1) MATERIAL: 303/304/316 STAINLESS STEEL SHEET ANNEALED 2B, 0.125 THK
PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME SA240
REF. DART SPEC. M304S11GA OR M303S11GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY AT ASSEMBLY
- 7) WEIGHT:
- D4151-1 = 0.24 lbs
- D4151-3 = 0.23 lbs

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED	SC	DRAWING NO. D4151	REV. C
MFG. APPR.			SHEET 2 OF 3
APPROVED		TITLE BASKET FWD HARDPOINT	SCALE
DE APPR.			NTS
DATE	10.12.14	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

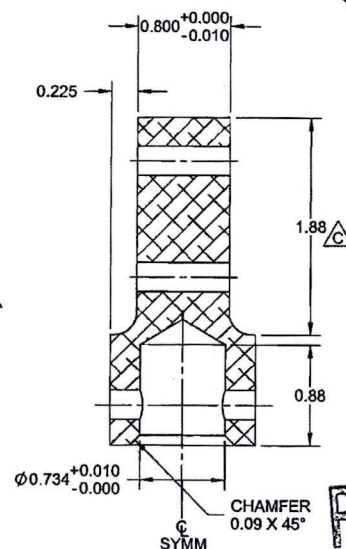
RELEASED
2011-01-08
MD 8



D4151-5 FWD BASKET INSTL STUD (LOWER)



D4151-7 FWD EYEBOLT RECEIVER (UPPER)



SECTION A-A

NOTES:

- 1) MATERIAL -5: 303/304/316 STAINLESS STEEL ROUND BAR, PER ASTM A276 OR ASTM A582
PER DART SPEC M303R OR M304R
- 7: 303/304/316 STAINLESS STEEL BAR, PER ASTM A276 OR ASTM A582
PER DART SPEC M303B OR M304B
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY AT ASSEMBLY
- 7) WEIGHT -5: 0.36 lbs
-7: 0.70 lbs

DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.12.14		
		DRAWING NO. D4151	REV. C
		TITLE BASKET FWD HARDPOINT	SHEET 3 OF 3
			SCALE NTS
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RELEASED
2011-01-10
RELEASED

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					



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CANADA
TEL: 1 613 632-1000
Email: sales@dartaero.com
www.dartaero.com

Container No: S157101



Part: D4151-043

Job No: 188915

Serial No/Batch: S157101

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 02/27/19